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Amendments to the Claims

Please amend the claims as follows:

1-28. (canceled)

29. (currently amended) A method for controlling an authentication in a

telecommunications network, comprising:

providing, at a subscriber terminal device, an external data transmission interface, the external data transmission interface having a physical data transmission channel and an

authentication channel configured to interface with a telecommunications network;

connecting the subscriber terminal device to an internet service provider, the connection

by the external data transmission interface to the internet service provider via a

telecommunications central office exchange;

monitoring data traffic received on the external data transmission interface and which is

sent to or received by the subscriber terminal device to determine whether no data traffic is

received within a duration of time; and

controlling logon/logoff procedures in the authentication channel based on the-a

determination that no data traffic is received within the duration of timemonitored data traffic;

and

disconnecting the subscriber terminal device from the internet service provider by a

logoff procedure in the authentication channel when no data traffic is received within  $\underline{\text{the}}$ a

duration of time.

30. (canceled)

(canceled)

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- (previously presented) The method according to claim 29, wherein the subscriber terminal device is an xDSL modem and the external data transmission interface transmits data embodied in accordance with the ITU G.992.1 standard or the ITU G.992.2 standard.
- 33. (previously presented) The method according to claim 29, further comprising controlling the physical data transmission channel of the external data transmission interface based on the monitored data traffic.
- (previously presented) The method according to claim 29, wherein the physical data transmission channel is always active.
- (previously presented) The method according to claim 29, further comprising:
  providing, at the subscriber terminal device, an internal data transmission interface configured to interface with a data processing unit;

monitoring data traffic received by the internal data transmission interface; and re-connecting the subscriber terminal device to the internet service provider by a logon procedure in the authentication channel when the data traffic is received by the internal data transmission interface.

36. (previously presented) The method according to claim 29, further comprising: monitoring data traffic received by the external data transmission interface; and re-connecting the subscriber terminal device to the internet service provider by a logon procedure in the authentication channel when the data traffic is received by the external data transmission interface.

37. (currently amended) A customer premises equipment, comprising:

a data processing unit;

an xDSL modem having a first interface and a second interface,

the first interface for a connection between the xDSL modem and the data processing unit in order for the xDSL modem to receive a first data traffic,

the second interface for a connection between the xDSL modem and an internet service provider via a telecommunications network exchange in order for the xDSL modem to receive a second data traffic, the second interface has an authentication channel in a layer higher than a physical data transmission layer:

the xDSL modem transfers data between the telecommunications network and the data processing unit based on the first and second data traffic, and

a control unit that monitors the first data traffic or the second data traffic and automatically controls a logon-procedure and a logoff procedure in the authentication channel based on a determination that no data traffic is received within a duration of timethe-monitored traffic.

wherein, when data traffic is not detected within thea duration of time, the control unit sends a control signal to the xDSL modem and the xDSL modem starts the logoff procedure which is carried out in the authentication channel, thereby causing the connection between the xDSL modem and the internet service provider to be logged off.

(previously presented) The customer premises equipment according to claim 37,
 wherein the first data traffic and the second data traffic are monitored.

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39. (currently amended) The customer premises equipment according to claim 37, wherein when the xDSL modem is logged off from a connection to the intenet-internet service provider and when the control unit detects the first data traffic:

the control unit sends a control signal to the xDSL modem that trigger the xDSL modem to start the logon procedure which is carried out in the authentication channel, thereby logging the xDSL modem logged on to a connection to the internet service provider.

40. (currently amended) The customer premises equipment according to claim 37, wherein when the xDSL modem is logged off from a connection to the intenet-internet service provider and when the control unit detects the second data traffic:

the control unit sends a control signal to the xDSL modem that trigger the xDSL modem to start the logon procedure which is carried out in the authentication channel, thereby logging the xDSL modem logged on to a connection to the internet service provider.

- (previously presented) The customer premises equipment according to claim 37, wherein the second interface is embodied in accordance with the ITU G.992.1 standard or the ITU G.992.2 standard.
- 42. (previously presented) The customer premises equipment according to claim 37, wherein the authentication channel has an authentication protocol embodied in accordance with a point-to-point protocol.
- 43. (previously presented) The customer premises equipment according to claim 42, wherein the authentication channel has an authentication protocol embodied in accordance with a point-to-point over Ethernet protocol.